BRUHAT BANGALORE MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Annapurneshwari Layout, Sapthagiri Layout and Surrounding areas in Ward No. 14 (Vidyaranyapura).

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 014-23-000006

Name of Agency: Sri. B.P Shanmugam, No. 28/2, 2nd Cross, Giddappa Block, Ganganagar, Bengaluru - 560032.

Work order No: BBMP/EE/BTP/WO/170/2022-23 D: 15-03-2023.

	Measurements Recarded on :	18-010-2023					
Sl No	**Description of work**	**Mesurement**				**Qty.**	**Unit**
		No.	**L**	**B**	**D**		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						Cum
	New Drain						
	Annapurneshari Layout Main Road						
	N/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	16.50	1.00	1.00	16.50	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	7.50	1.00	1.00	7.50	
		1	3.50	1.00	1.00	3.50	
	S/S						
		1	9.30	1.00	1.00	9.30	
		1	15.00	1.00	1.00	15.00	
		1	11.00	1.00	1.00	11.00	
		1	9.00	1.00	1.00	9.00	
	Cross Road						
		1	15.00	1.00	1.00	15.00	
		1	13.00	1.00	1.00	13.00	
	1st Cross Road						
	E/S	1	10.00	1.00	1.00	10.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	

Assistant Engineer -14

B.P Shanmugam
Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
		1	15.50	1.00	1.00	15.50	
	W/S						
		1	8.80	1.00	1.00	8.80	
		1	15.00	1.00	1.00	15.00	
		1	12.00	1.00	1.00	12.00	
	2nd Cross Road						
	E/S	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	2.80	1.00	1.00	2.80	
	W/S						
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	16.60	1.00	1.00	16.60	
	Desilting of Drain						
	1st Cross Road E/S	1	9.00	0.60	0.45	2.43	
	1st Cross Road W/S	1	18.00	0.60	0.45	4.86	
	2nd Cross Road E/S	1	9.00	0.60	0.45	2.43	
	2nd Cross Road W/S	1	18.00	0.60	0.45	4.86	
		Total Qty =				**360.08**	
	Total	**Qty Limited to Tender Qty =**				**360.00**	

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub-Division

B. P. Shivaji

Contractor

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	18-10-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						Cum
	New Drain						
	Annapurneshari Layout Main Road						
	N/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	16.50	1.00	0.15	2.48	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	7.50	1.00	0.15	1.13	
		1	3.50	1.00	0.15	0.53	
	S/S						
		1	9.30	1.00	0.15	1.40	
		1	15.00	1.00	0.15	2.25	
		1	11.00	1.00	0.15	1.65	
		1	9.00	1.00	0.15	1.35	
	Cross Road						
		1	15.00	1.00	0.15	2.25	
		1	13.00	1.00	0.15	1.95	
	1st Cross Road						
	E/S	1	10.00	1.00	0.15	1.50	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.50	1.00	0.15	2.33	
	W/S	1	8.80	1.00	0.15	1.32	
		1	15.00	1.00	0.15	2.25	
		1	12.00	1.00	0.15	1.80	
	2nd Cross Road						
	E/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	2.80	1.00	0.15	0.42	
	W/S	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	16.60	1.00	0.15	2.49	
	Drain Vent Concrete						
	1st Cross Road E/S	1	9.00	0.60	0.10	0.54	
	1st Cross Road W/S	1	18.00	0.60	0.10	1.08	
	2nd Cross Road W/S	1	10.00	0.60	0.10	0.60	
		Total Qty =				**54.05**	
	Total	**Qty Limited to Tender Qty =**				**54.00**	

Assistant Engineer - 14

B. P. Shegun
Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	13-11-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately).						Cum
	New Drain						
	Raft						
	Annapurneshari Layout Main Road						
	N/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	16.50	0.90	0.15	2.23	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	7.50	0.90	0.15	1.01	
		1	3.50	0.90	0.15	0.47	
	S/S						
		1	9.30	0.90	0.15	1.26	
		1	15.00	0.90	0.15	2.03	
		1	11.00	0.90	0.15	1.49	
		1	9.00	0.90	0.15	1.22	
	Cross Road						
		1	15.00	0.90	0.15	2.03	
		1	13.00	0.90	0.15	1.76	
	1st Cross Road						
	E/S	1	10.00	0.90	0.15	1.35	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.50	0.90	0.15	2.09	
	W/S						
		1	8.80	0.90	0.15	1.19	
		1	15.00	0.90	0.15	2.03	
		1	12.00	0.90	0.15	1.62	
	2nd Cross Road						
	E/S	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	2.80	0.90	0.15	0.38	
	W/S						
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	16.60	0.90	0.15	2.24	

Assistant Engineer -14

B.P. Chavan
Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Drain Vent Concrete						
	1st Cross Road E/S	1	9.00	0.60	0.10	0.54	
	1st Cross Road W/S	1	18.00	0.60	0.10	1.08	
	2nd Cross Road W/S	1	18.00	0.60	0.10	1.08	
	Main Road S/S	1	15.00	0.60	0.10	0.90	
		1	15.00	0.60	0.10	0.90	
		1	12.00	0.60	0.10	0.72	
	Side Wall						
	Annapurneshari Layout Main Road						
	N/S	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.59	2.66	
		2	16.50	0.15	0.59	2.92	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.61	2.75	
		2	7.50	0.15	0.59	1.33	
		2	3.50	0.15	0.59	0.62	
	S/S						
		2	9.30	0.15	0.59	1.65	
		2	15.00	0.15	0.60	2.70	
		2	11.00	0.15	0.60	1.98	
		2	9.00	0.15	0.59	1.59	
	Cross Road						
		2	15.00	0.15	0.60	2.70	
		2	13.00	0.15	0.59	2.30	
	1st Cross Road						
	E/S	2	10.00	0.15	0.61	1.83	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.60	2.70	
		2	15.50	0.15	0.59	2.74	
	W/S						
		2	8.80	0.15	0.59	1.56	
		2	15.00	0.15	0.59	2.66	
		2	12.00	0.15	0.60	2.16	
	2nd Cross Road						
	E/S	2	15.00	0.15	0.58	2.61	
		2	15.00	0.15	0.59	2.66	
		2	15.00	0.15	0.58	2.61	
		2	2.80	0.15	0.60	0.50	
	W/S						
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.59	2.66	
		2	16.60	0.15	0.59	2.94	
		Total Qty =				**113.42**	
		Qty Limited to Tender Qty =				**113.40**	

Assistant Engineer - 14

Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	13-11-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification						Tonne
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Singapura Garden						
	Annapurneshwari Layout Main Road						
	N/S						
	10 mm dia	517	2.10	1085.70	0.62	673.13	
	8 mm dia	16	46.50	744.00	0.39	290.16	
	Total					**963.29**	
	10 mm dia	417	2.10	875.70	0.62	542.93	
	8 mm dia	16	37.50	600.00	0.39	234.00	
	Total					**776.93**	
	Cross Road						
	10 mm dia	312	2.10	655.20	0.62	406.22	
	8 mm dia	16	28.00	448.00	0.39	174.72	
	Total					**580.94**	
	1st Cross E/S						
	10 mm dia	112	2.10	235.20	0.62	145.82	
	8 mm dia	16	10.00	160.00	0.39	62.40	
	Total					**208.22**	
	10 mm dia	480	2.10	1008.00	0.62	624.96	
	8 mm dia	16	45.50	728.00	0.39	283.92	
	Total					**908.88**	
	1st Cross W/S						
	10 mm dia	271	2.10	569.10	0.62	352.84	
	8 mm dia	16	27.00	432.00	0.39	168.48	
	Total					**521.32**	
	10 mm dia	89	2.10	186.90	0.62	115.88	
	8 mm dia	16	8.80	140.80	0.39	54.91	
	Total					**170.79**	
	2nd Cross E/S						
	10 mm dia	467	2.10	980.70	0.62	608.03	
	8 mm dia	16	46.60	745.60	0.39	290.78	
	Total					**898.82**	
	2nd Cross W/S						
	10 mm dia	479	2.10	1005.90	0.62	623.66	
	8 mm dia	16	47.80	764.80	0.39	298.27	
	Total					**921.93**	
	Annapurneshwari Layout Main Road						
	S/S						
	10 mm dia	94	2.10	197.40	0.62	122.39	
	8 mm dia	16	9.30	148.80	0.39	58.03	
	Total					**180.42**	
	10 mm dia	261	2.10	548.10	0.62	339.82	
	8 mm dia	16	26.00	416.00	0.39	162.24	

Assistant Engineer - 14

B.P. Shetty
Contractor

Assistant Executive Engineer

Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Total					**502.06**	
	10 mm dia	91	2.10	191.10	0.62	118.48	
	8 mm dia	16	9.00	144.00	0.39	56.16	
	Total					**174.64**	
	RCC Drain Grand Total					**6808.26**	
	Total Qty =					**6.81**	Tonnes
	Qty Ltd Approved Qty =					**6.80**	Tonnes

Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub-Division